

ABSTRACT

An apparatus includes a substrate, a ground plane on the substrate, the ground plane having a slot, transmission lines lying over the slot, and data processing agents each connected to one of the transmission lines. A method includes inducing a transient return current on a reference plane in response to a driving agent sourcing a current being representative of binary data onto a first transmission line, the current being representative of binary data, propagating energy of the transient return current to a slot in the reference plane, inducing a transient voltage pulse onto a second transmission line connected to a receiving agent when the propagating energy encounters the second transmission line and generating a binary digital signal in the receiving agent from the transient voltage pulse received on the second transmission line.

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